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DR. ARTHUR H. McCRAY

Dr. Arthur H. McCray, formerly of the Bureau of Entomology, and more recently State Bacteriologist of Montana, died of spotted fever on June 14, 1919.

Doctor McCray was born November 14, 1880. He came to the Bee-Culture Laboratory April 15, 1908, from the Ohio State University where he received his bachelor's degree in June, 1908. During his stay in Washington he graduated in veterinary medicine in 1911 and also from the Medical Department of George Washington University in 1915. Most of his attention was given to bee-disease work, as he had charge of the examination of samples of suspected brood sent in for examination. In 1915 he began investigational work in this field and prepared a paper issued in the Journal of Agricultural Research entitled "Spore-Forming Bacteria of the Apiary" and also collaborated with Dr. G. F. White in preparing a bulletin on "The Diagnosis of Bee Diseases by Laboratory Methods."

After being transferred, for a few months, to the work on insects affecting the health of man, he was appointed to the position of State Bacteriologist of Montana, in September, 1917, and this position he held until his death. He was engaged in investigations of spotted fever and it is supposed that he contracted this disease while making a postmortem examination of a guinea pig which he had inoculated with the virus of the disease. In addition to his independent investigations, he was collaborating with the investigator of the Rockefeller Institute and had prepared a strain of spotted fever virus which was forwarded to New York after his death. Doctor McCray was ill of the disease for eleven days but a diagnosis was not made until he himself discovered the symptoms of spotted fever. There was no hope of recovery for several days before his death and during periods of consciousness he arranged the details of his funeral.

Doctor McCray died a martyr to the work in which he was engaged and his death, while causing deep regret among his friends in the Bureau, yet brings pride to his former associates in having known him. Their feelings are well expressed in a statement made by Governor Stewart of Montana: "...It is a pitiful tragedy that he should die while seeking the means to save the lives of others from this terrible malady. Not less bravely than a soldier he dared death for his fellowman and that he should be taken from us in the prime of life and at a time when he was almost on the threshold of the discovery of a preventive or a cure for spotted fever is the irony of fate. To the state he leaves a legacy of work well performed and to his loving wife and mother the memory of a splendid husband and son." - E.F.P.

CEREAL AND FORAGE INSECT INVESTIGATIONS

W. R. Walton, Entomologist in Charge

D. Prather Perry and K. W. Babcock have been granted temporary appointments

as field assistants in connection with the European corn-borer investigations and entered on their new duties the first week in June.

A. H. Hollinger, formerly employed in the extensional activities in the State of Texas, has been transferred to the investigational work and assigned to Berkeley, Cal., where he will be under the direction of T. D. Urbahns.

Stewart Lockwood, formerly employed as special field agent in North Dakota, has resigned, effective June 30, and entered similar work under State appointment.

C. N. Ainslie, Stewart Lockwood, and E. V. Walter have recently been conducting a cooperative campaign for the suppression of a serious grasshopper outbreak in North Dakota. This work has now been satisfactorily organized and the outbreak is believed to be under control.

C. W. Creel, in charge of the field laboratory located at Forest Grove, Oreg., will resign about July 15, for the purpose of entering the employment of the State of Nevada, where he will be appointed to a position combining the duties of county agent leader and extension entomologist.

L. P. Rockwood, for several years Mr. Creel's first assistant, has been designated to take charge of the station upon the resignation of Mr. Creel.

Prof. R. B. Beckwith has been engaged for the summer months at Tempe, Ariz., for the purpose of continuing the biological studies of injurious grasshoppers, which were begun last year.

Miss Harriet L. Arnold has been appointed entomological laboratory assistant, for duty at Tempe, Ariz. She entered on her appointment June 2.

LIBRARY

Mabel Colcord, Librarian

New Books

Bodkin, G. E. Sugar-cane insects and their control in British Guiana. Trans. Third Internat. Congr. Trop. Agr. Papers communicated v.2, p. 160-164. 1917.

Coleman, Leslie C, and Kunhikannan, K. Ground-beetles attacking crops in Mysore. 16 p., illus., pl. Bangalore, Govt. Press, 1918. (Mysore State Dept. Agr. Ent. Ser. Bul. 5,)

Coleman, Leslie C, and Kunhikannan, K. Some scale insects pests of coffee in South India. 66 p., 1 pl. Bangalore, Govt. Press, 1918. (Mysore State Dept. Agr. Ent. Ser. Bul. 4.)

Digges, J. G. Practical bee guide. Ed. 2, 229 p., illus. 1910.

Edwardes, Tickner. The bee master of Warrilow. 64 p., illus. London, The "Pall Mall" Press, 1907.

Gardner, Frank D. Fruits, vegetables and flowers...279 p., illus. Chicago, John C. Winston Company, 1918.

Insect pests and their control, by W. B. Wood, p. 224-251.

Insecticides and fungicides, by H. Garman, p. 252-306.

Holmgren, Nils. ...Zur Vergleichenden anatomie des gehirns polychaeten, onychophoren, xiphosuren, arachniden, crustaceen, myriapoden und insekten-vorstudien zu einer phylogenie der arthropoden....303p., illus., 12 pl. Stockholm, Almqvist & Wiksells boktryckeri-A-B., 1916. (Kungl. Svenska vetenskapsakademiens handlingar Bd. 56, N: 1.)

Mulsant, Martial Etienne. Lettres à Julie sur l' entomologie, suivies à une description methodique de la plus grande partie des insectes de France... v.2, viii col. pl. Lyon, 1830.

Nova Scotia Entomological Society. Proceedings...1918; no. 4. Halifax, 1919. Official Army Register. Dec. 1, '1919. 1216 p. Washington, Govt. Pr. Off., 1919.

(The last official army register was issued Dec. 1, 1915)

Werck, Joseph. Die kultur der zwergobstbäume mit berucksichtigung ihrer formen sowie die kultur der beeren-früchte nebst einem anhang der immerwährende arbeitskalender... neubearb. von Ulrich Kiebler. Ed. 5. 150 p., illus. Aarau, Druck und verlag von Emil Wirz, 1905.

Die krankheiten und schädlinge der obstbäume und beerensträuchen, p. 106-138,

SOUTHERN FIELD CROP INSECT INVESTIGATIONS

J. L. Webb, Entomological Assistant Acting in Charge

The following men have received temporary appointments for work in connection with the Tobacco Insect Investigations: M. L. MacQueen, L. N. Judah, Scott C. Lyon, T. P. Weakley, and James T. Lewis.

Dr. W. D. Pierce returned to Washington on June 30, after having visited the laboratories at Wilmington, N. C., Clemson College, S. C., Madison, Fla., and Quincy, Fla.

Mr. W. E. Dove has resigned effective June 25.

Dr. W. Dwight Pierce has resigned, effective July 31, for the purpose of engaging in private business.

Mr. R. H. Hutchison attended the scientific exhibit of the American Medical Association at Atlantic City, June 9 to 13.

W. E. Haley has received a temporary appointment for work at the Sugar Cane Insect Laboratory in New Orleans.

TRUCK CROP INSECT INVESTIGATIONS

F. H. Chittenden, Entomologist in Charge

J. E. Graf has completed his work in Washington, and is now temporarily in southern California, for the purpose of investigating an outbreak of the onion thrips in the Imperial Valley. He will return to Florida early in July.

Mortimer W. Leonard, who has been serving as extension entomologist for New York State has been transferred to truck insect investigations and will establish a station on Long Island for the study of potato insects.

W. A. Thomas who has worked as extension entomologist in North Carolina during the past year, will be transferred to truck insect investigations for the remainder of the year, establishing a station near the southern boundary of that State.

B. L. Boyden, who was recently called to California by the sudden death of his father, has returned to duty at Daytona, Fla.

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